CLAIMS

What is claimed is:

1. A refrigerator, comprising:

a refrigerator compartment and a freezer compartment partitioned from each other;

a temperature-controlled chamber provided in the refrigerator compartment so as to be partitioned from the refrigerator compartment;

a cool air inlet port to introduce cool air from the freezer compartment into the temperature-controlled chamber; and

a cool air discharging duct to discharge the cool air from the temperature-controlled chamber into the freezer compartment.

2. The refrigerator according to claim 1, further comprising a freezer compartment evaporator mounted at a portion of the freezer compartment, and wherein the cool air discharging duct comprises:

an inlet connected to a cool air discharging passage provided at the temperaturecontrolled chamber to guide the cool air from the temperature-controlled chamber to the cool air discharging duct, and

an outlet of the cool air discharging duct arranged at a position adjacent to an inlet of the freezer compartment evaporator to introduce the cool air from the cool air discharging duct into the freezer compartment evaporator.

- 3. The refrigerator according to claim 2, wherein the outlet of the cool air discharging duct is downwardly inclined toward the inlet of the freezer compartment evaporator.
- 4. The refrigerator according to claim 3, further comprising a heater mounted to the outlet of the cool air discharging duct which is downwardly inclined to defrost the outlet.
- 5. The refrigerator according to claim 2, further comprising an intake damper installed in the cool air inlet port so as to open or close the cool air inlet port.
- 6. The refrigerator according to claim 5, further comprising a cooling fan mounted at a portion of the temperature-controlled chamber so as to be positioned adjacent to the cool air inlet port to forcibly circulate the cool air from the freezer compartment through the temperature-

controlled chamber and the cool air discharging duct to the freezer compartment evaporator.

7. The refrigerator according to claim 6, wherein the intake damper comprises a thin plate, thus opening the air inlet port in response to the cool air flowing into the temperature-controlled chamber when the cooling fan is operated, and closing the cool air inlet port in response to a stoppage of flow of the cool air when the cooling fan is stopped.

- 8. The refrigerator according to claim 6, further comprising a temperature sensor mounted in the temperature-controlled chamber, to control an operation of the cooling fan, thus allowing an interior of the temperature-controlled chamber to be maintained at a preset temperature.
- 9. The refrigerator according to claim 1, wherein the temperature-controlled chamber comprises a rear insulation wall, upper and lower insulation walls, and side insulation walls, and is opened at a front thereof, with a drawer to store items being put into the temperature-controlled chamber through the open front of the temperature-controlled chamber.
- 10. The refrigerator according to claim 2, wherein the cool air inlet port has only an intake damper installed so as to open or close the cool air inlet port.
- 11. The refrigerator according to claim 5, further comprising a discharging damper mounted at the inlet of the cool air discharging duct so as to control flow of cool air in cooperation with the intake damper.
- 12. The refrigerator according to claim 10, further comprising a discharging damper mounted at the inlet of the cool air discharging duct so as to control flow of cool air in cooperation with the intake damper.
 - 13. A method of cooling a compartment in a refrigerator, comprising: sensing a temperature of the compartment; operating a fan when the temperature sensed is above a predetermined temperature; circulating forcibly cool air from a freezer in the refrigerator when the fan operates; opening an air inlet port that opens to the compartment with the circulating cool air; and cooling the compartment with the circulating cool air.

14. The method of cooling a compartment in a refrigerator according to claim 13, further comprising:

closing the air inlet port that opens to the compartment when the temperature sensed is below the predetermined temperature.

. 15. The method of cooling a compartment in a refrigerator according to claim 13, further comprising:

discharging the air from the compartment that was cooled into a duct; guiding the discharged air into an evaporator of the freezer; and mixing the discharged air with the cool air in the freezer.

16. The method of cooling a compartment in a refrigerator according to claim 15, further comprising:

heating at least part of the air guided to the compartment flowing to the freezer, to remove frost; and

collecting water from the heating of the frost.

- 17. A refrigerator, comprising:
- a first compartment and a second compartment;
- a temperature-controlled chamber provided in the first compartment;
- an inlet port to introduce a gas from the second compartment into the temperaturecontrolled chamber; and
- a discharging duct to discharge the gas from the temperature-controlled chamber into the second compartment.
- 18. The refrigerator according to claim 17, wherein an inlet of the discharging duct is connected to a discharging passage provided at the temperature-controlled chamber to guide the gas from the temperature-controlled chamber through the inlet of the discharging duct to the discharging duct, and an outlet of the discharging duct is arranged at a position adjacent to an inlet of a second compartment evaporator to introduce the gas from the discharging duct into the second compartment evaporator, the second compartment evaporator being mounted at a portion of the second compartment.

19. The refrigerator according to claim 18, wherein the outlet of the discharging duct is downwardly inclined toward the inlet of the second compartment evaporator.

- 20. The refrigerator according to claim 18, further comprising a heater mounted to the outlet of the discharging duct which is downwardly inclined.
- 21. The refrigerator according to claim 19, further comprising an intake damper installed in the inlet port at a side around the temperature-controlled chamber so as to open or close the inlet port.
- 22. The refrigerator according to claim 19, further comprising a fan mounted at a portion of the temperature-controlled chamber so as to be positioned adjacent to the air inlet port, thus forcibly circulating the gas from the second compartment through the temperature-controlled chamber and the discharging duct to the second compartment evaporator.
- 23. The refrigerator according to claim 21, wherein the intake damper comprises a plate to open the inlet port when the fan is operated, and close the air inlet port when the fan is stopped.
- 24. The refrigerator according to claim 22, further comprising a temperature sensor mounted in the temperature-controlled chamber, to control an operation of the fan.